



Innovative **Technology**
for a **Connected** World

Tflex™ XS400 Series Thermal Gap Filler



COMPLIANT 2.0 W/mK THERMALLY CONDUCTIVE GAP FILLER

Tflex™ XS400 is a compliant elastomer gap filler designed to provide moderate thermal performance. This soft interface pad conforms well with minimal pressure, resulting in little or no stress on mating parts.

Tflex™ XS400 is naturally tacky, no adhesive coating is required. Due to its TG liner on the other side, Tflex™ XS400 is electrically insulating, stable from -40°C to 160°C and is certified to UL 94V0 flammability rating.

FEATURES AND BENEFITS

- Thermal Conductivity 2.0 W/mK
- Highly compliant
- Low thermal resistance even at low pressure
- Available in thicknesses from 0.020-inch (0.25mm) through 0.200-inch (5.0mm) in 0.010-inch increments
- Naturally tacky for easy assembly

APPLICATIONS

- Telecommunications
- Computer and peripherals
- Power conversion
- Between heat generating components and heatsinks

global solutions: local support.™

Americas: +1.800.843.4556

Europe: +49.8031.2460.0

Asia: +86.755.2714.1166

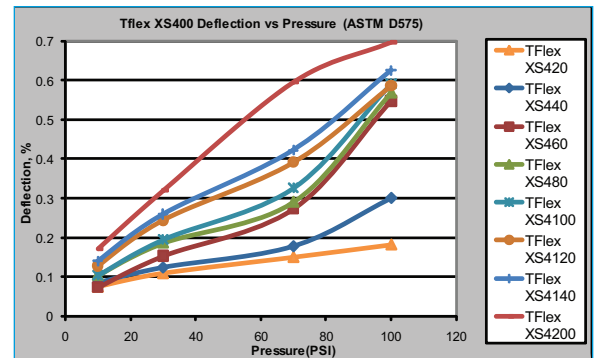
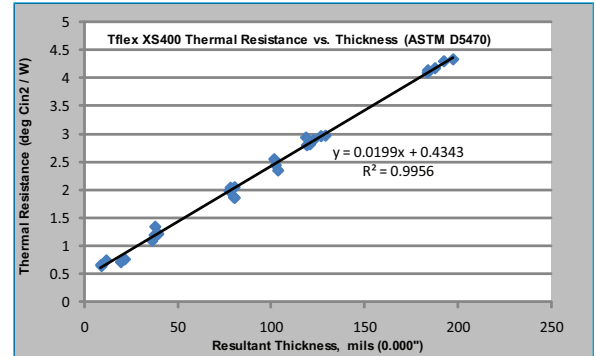
CLV-customerservice@lairdtech.com

www.lairdtech.com/thermal

Tflex™ XS400 TYPICAL PROPERTIES

	Tflex XS400™	TEST METHOD
Construction	Soft gap filler with TG liner	NA
Color	Dark grey / Red Liner	visual
Thermal Conductivity	2.0 W/mK	ASTM D5470
Hardness (Shore 00)	3 secs: 30 to 35 30 secs: 22 to 27	ASTM D2240
Specific Gravity	40 mils - 2.02; 120 mils - 1.96	Helium Pycnometer
Thickness Range	0.020 - 0.200 in (0.5 - 5.1 mm)	
Thickness Tolerance	+/- 10%	
UL Flammability Rating	V0 (pending)	UL 94
Temperature Range	-40°C to 160°C	NA
Outgassing TML	0.32%	ASTM E595
Outgassing CVCM	0.08%	ASTM E595
Coefficient Thermal Expansion (CTE)	pending	IPC-TM-650 2.4.24

Notes: Resultant thickness is the final gap thickness of the application.



STANDARD THICKNESSES

Standard thickness is 0.020-inch (0.25 mm) through 0.200-inch (5.0 mm) and available in 0.010-inch (0.25 mm) increments.

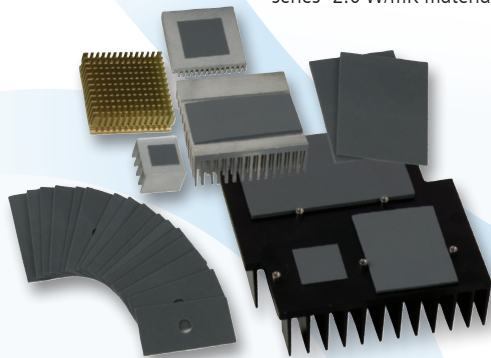
MATERIAL NAME AND THICKNESS

Tflex™ indicates Laird Technologies' brand thermally conductive elastomeric gap filler product. XS4xxx indicates 'XS400 series' 2.0 W/mK material, and xxx indicates thickness in mils (0.001-inches).

Examples:

Tflex™ XS4120 = 0.120-inch thick material

Tflex™ XS450 = 0.050-inch thick material



THR-DS-Tflex-XS400 0910

Any information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Technologies materials rests with the end user, since Laird Technologies and its agents cannot be aware of all potential uses. Laird Technologies makes no warranties as to the fitness, merchantability or suitability of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies' Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2010 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies Logo, and other marks are trade marks or registered trade marks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights. Document A16311-00 Rev A, 09/17/2010.